

Bill of Materials



Project	<u>Information Barrier</u>
Schematic Design	<u>IB Phase II Digital Board Issue 2.1</u>
PCB Design	<u>Digital Board MGM_0282.ISSUEC</u>

#	Designator	Value	Description	Manufacturer No.	Supplier	Part No.	Quantity
1	R1, R23, R26, R27, R72-R80	100R	MF25 +/- 1% 0.25W	MF25 100R	Farnell	9341099	13
2	R2, R44-R46	10K	MF25 +/- 1% 0.25W	MF25 10K	Farnell	9341110	4
3	R3-R15, R37, R38, R51, R55, R57, R64-R71	330R	MF25 +/- 1% 0.25W	MF25 330R	Farnell	9341730	26
4	R16, R21, R22	10R	MF25 +/- 1% 0.25W	MF25 10R	Farnell	9341145	3
5	R17, R19	68R	MF25 +/- 1% 0.25W	MF25 68R	Farnell	9342192	2
6	R18	20K	MF25 +/- 1% 0.25W	MF25 20K	Farnell	9341498	1
7	R20	10R	ANTI PULSE, 1210, 5%	ERJT14J100U	Farnell	1577489	1
8	R24, R25	3K9	MF25 +/- 1% 0.25W	MF25 3K9	Farnell	9341854	2
9	R28, R29	1K	MF25 +/- 1% 0.25W	MF25 1K	Farnell	9341102	2
10	R30-R36, R39, R40	12K	MF25 +/- 1% 0.25W	MF25 12K	Farnell	9341234	9
11	R41, R43, R48, R50, R52, R54, R56, R58, R60	100K	MF25 +/- 1% 0.25W	MF25 100K	Farnell	9341129	9
12	R42, R49, R59, R61	240R	MF25 +/- 1% 0.25W	MF25 240R	Farnell	9341587	4
13	R47, R53, R62	510R	MF25 +/- 1% 0.25W	MF25 510R	Farnell	9342001	3
14	R63	470R	MF25 +/- 1% 0.25W	MF25 470R	Farnell	9341943	1
15	C1, C2	22pF	COG/NP0 100V	SR151A220JTR	Farnell	1100369	2
16	C3, C10, C24-C34	100nF	X7R 50V	C0805C104J5RAC	Farnell	1414663	13
17	C4, C6, C12, C14, C16, C18, C20, C36, C37	10uF	X7R 25V	C1210C106K3RAC	Farnell	1358512	9
18	C5, C7, C9, C11, C13, C15, C17, C19, C22	10nF	COG 100V	C0805C103J5GAC	Farnell	1535573	9
19	C8	10uF	X7R 50V	CKG57NX7R1H106M	RS	5477219	1
20	C21	1nF	Polyester 630V	MKS2 1000PF/10/630/5	Farnell	1519302	1
21	C23, C35	100uF	X5R 16V	CKG57NX5R1C107M	RS	5477152	2
22	C38-C47	1nF	COG/NP0 50V	08055A102JAT2A	Farnell	317457	10
23	U1, U2	HCPL-7611-000E	OPTOCOUPLER	HCPL-7611-000E	Farnell	9995366	2
24	U3	OR Gate	Single 2-Input OR Gate	NC7S32M5	Farnell	1014137	1
25	U4	ADR421	VOLTAGE REF 2.5V	ADR421ARZ	Farnell	9426094	1
26	U5	AD7671ASTZ	ADC 16BIT	AD7671ASTV	RS	5387497	1
27	U6	AD8031	OP AMP	AD8031ARZ	Farnell	8621500	1
28	U7	ATMEGA2560	8BIT MCU	ATMEGA2560	Farnell	1288330	1
29	U8	MAX202	DUAL TRANSCEIVER	MAX202ECPE+	Farnell	9726039	1
30	Q1-Q9	ZTX450	TO-92 ELINE	ZTX450	Farnell	9525513	9
31	D1	1N4148.	Small Signal Diode	1N4148.	Farnell	9565124	1
32	J1	EURO CARD SOCKET	DIN41612 2A	N/A	RS	5083117	1
33	SW1	SMD-BUTTON	SMD Push Switch 4.3mm	1301.9314	Farnell	1217763	1
34	X1	14.7456MHz	CRYSTAL	CA-14.7456-18-3050-X	Farnell	1538745	1